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ABSTRACT OF THE DISCLOSURE

Method and apparatus for implementing multi-time scale adaptive routing in an IP network are described. One embodiment is a packet router that supports multi-The packet router time scale resource management. comprises a management agent that manages differentiated services policy information database operable to store policies on forwarding packets in the packet router; a resource server system that controls forwarding of packets in the packet router based on adaptive selections of policies from the policy information database; a flow measurement system that monitors packet flows through the packet router and generates statistic reports which affect the resource server systems selection of control; a hardware forwarding engine that receives and forwards packets in response to the resource server system controls.